

Adsorbent Material for Blood, Blood Plasma, and Albumin Purification Methods

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Abstract

The invention relates to an adsorbent material, a method for cleaning blood and plasma and purifying albumin, and to a method for producing said adsorbent material. The inventive adsorbent material is embodied in the form of a highly cross-linked and porous spherical divinylbenzene copolymer which contains from 4 to 30 weight % of an imidazole derivative and at least 50 weight % of divinylbenzene incorporated by radical polymerization in the presence of air and/or oxygen. Said adsorbent material is embodied in such a way that it is biocompatible and suitable for removing free and albumin-bound toxic substances, drugs, pharmaceutical products, endogenic and exogenic toxins from blood, plasma, and external albumin circuits at a high rate and efficiency. The material is used in particular for adsorbing bilirubin and bile acids and is produced by suspension polymerization.